

Docket No. 87278.2500
Customer No. 30734

PATENT

ABSTRACT

ROTARY POSITIVE DISPLACEMENT MACHINE WITH ORBITING PISTON

A casing 1 has a circular cylindrical internal surface 3 delimiting an operating chamber. An orbiting piston 4 in the operating chamber is mounted so as to orbit about a chamber axis which is the axis of the internal surface 3. The orbiting piston 4 has a circular cylindrical external surface 11, a generatrix of the external surface being adjacent to the said internal surface, and a diametrically opposite generatrix being spaced from the said internal surface. A vane member 17 mounted on the casing 1 has a tip face which faces the external surface of the orbiting piston and which has a length substantially equal to that of the orbiting piston 4. A linkage 71 connects the vane member 17 to the orbiting piston 4 so as to keep the tip face of the vane member adjacent the external surface 11 of the orbiting piston. At least one of the external and internal surfaces (11,3) is provided with individual compliant strips 34 which are distributed around the said one surface, run parallel to one another, and project above the said one surface. The orbiting piston 4 comprises an extruded body.